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K Museth, D Breen - US Patent App. 10/783,201, 2004 - Google Patents  
... are deformable implicit surfaces where the deformation of the ... function for describing  
the surface editing operators ... Third, level set models are free of the edge ...

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... for coping with scaling, translation, rotation, and deformation. ... level set values  
of the surface is illustrated ... by the local changes of the level set function. ...

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R Malladi, JA Sethian, BC Vemuri - IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE ... , 1995 - doi.ieeeecs.org

... with protrusions have very high deformation energies ... of a flat superquadric using  
the level set front propagation ... A sphere, which is the level surface } = 0) of ...

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... utilizing an inventory of lattices and a set of tools ... in this manner.) At the lowest  
level, the user ... halfedge structure for a mesh representing a surface and a ...

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K Museth, DE Breen, RT Whitaker, S Mauch, D ... - Computer Graphics Forum, 2005 - Blackwell Synergy  
... Level set models implicitly represent a deforming surface as an iso ... To allow for  
deformations of the level set ... of a point x on a level set surface, the speed ...

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### A painting interface for interactive surface deformations

J Lawrence, T Funkhouser - Graphical Models, 2004 - Elsevier

... to lie between 0.0 and 1.0 for any level of detail ... In our current implementation,  
the user can set the time ... allowing the user to "see" the surface move and ...

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### Model-based deformable surface finding for medical images

LH Staib, JS Duncan - Medical Imaging, IEEE Transactions on, 1996 - ieeeexplore.ieee.org

... their topology have been developed using level sets [7] and ... surface using three  
functions of 0 and  $q_5$  ... this optimal form during the deformation process without ...

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DE Breen, RT Whitaker - IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS, 2001 - doi.ieeeecs.org  
...  $k_5$  and, therefore, this analysis applies to every level set of  $\phi$  ... Thus, we have

describing the deformation of an embedded family of surface models each of ...

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T McIneney, D Terzopoulos - Medical Imaging, IEEE Transactions on, 1999 - [ieeexplore.ieee.org](#)

... Surface Equilibrium In contrast to the level-set evolution techniques ... Furthermore,  
a T-surface is considered to have ... for a specified number of deformation steps ...

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[PDF] ► A Framework for Level Set Segmentation of Volume Datasets

R Whitaker, D Breen, K Museth, N Sori - Proceedings of ACM Intl. Wkshp. on Volume Graphics, 2001 - [cs.drexel.edu](#)

... the specific methods needed to construct each model. ... The second two are surface  
deformation steps, first ... to voxel resolution while the level set model has sub ...

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